

# PATENT ABSTRACTS OF JAPAN

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## (54) ULTRASONIC DEVICE

### (57)Abstract:

**PURPOSE:** To detect the number of existing positions of plural objects by discriminating small sections where the objects exist on a survey area on the basis of distance data to the objects from plural ultrasonic transmit-receive parts disposed linearly.

**CONSTITUTION:** The distance to an object (walking person) is computed (16) respectively from plural transmit-receive parts 10, 20, 21 fitted in a row. A survey area is divided into specified small sections, and a storage part is stored with the coordinate data of each small section and also with distance data from the respective transmit-receive parts 10-21 to each small section in the related state. On the basis of the detected and computed (16) distance data every transmit-receive part, a discriminating part 14 selects the suitable small sections from the transmit-receive parts 10-21 and discriminates the common small section out of the small sections selected every transmit-receive part. The coordinates of the common small section is the existing position of the object. The existing positions of plural objects can be detected in the same way. The number of the existing positions are counted by an integrating part 18 to allow the total of the detected objects to be counted.

